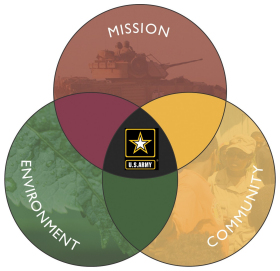
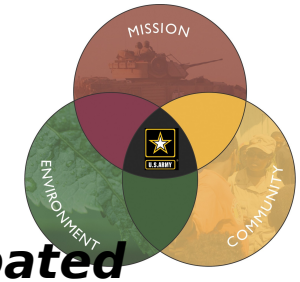


Sustainable Buildings: Achieving the Gold LEED/SPiRiT Standards on a Tight Budget

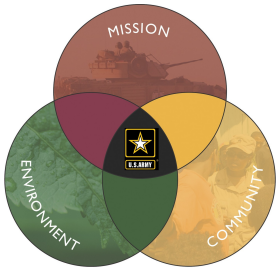
Produced by: Southern Colorado American Institute of Architects and Fort Carson's Directorates of Public Works and DECAM

Agenda



1:30	***The Challenge: Fort Carson's Anticipated Growth***
1:55	***Sustainable Design at the US Army Corps of Engineers***
2:20	**Break**
2:30	***Other Government Agency Experiences:***
2:30	***University of Colorado at Colorado Springs (UCCS)***
2:55	***U.S. General Services Administration (GSA)***
3:20	**Break**
3:30	***Private Sector Experiences:***
	Case story: Regional Building Authority (Colorado Springs)

25-Year Sustainability Goals
Fort Carson

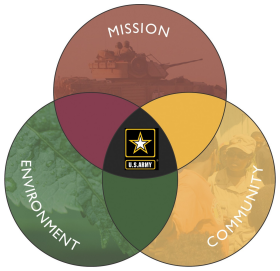


1. **Sustainable Water and Energy:** Sustain all facility and mobility systems from renewable sources, and reduce the total water purchased from outside sources by 75%.
2. **Sustainable Transportation:** Reduce automobile dependency and provide balanced land use and transportation systems.
3. **Improve Communication:** Improve communication to foster understanding and attain a “Community of One.”
4. **Sustainability Partnerships**: Enhance partnering to collaboratively develop, integrate, and implement regional sustainability.
5. **Hazardous Air Pollutants**: The total weight of hazardous air pollutant emissions is reduced to zero. Proponent: DECAM
6. **Master Plan:** Further integrate sustainability principles into the Fort Carson land use planning, Real Property Master Planning, and Military Construction, Army (MCA) programming processes.

25-Year Sustainability Goals Fort Carson - continued

7. **Platinum Buildings:** All applicable facilities at Fort Carson will be high-performance buildings that meet or surpass the Platinum Standard of SPiRiT or LEED by 2027.
8. **Sustainability Training:** Key stakeholder groups are trained, compliant and motivated toward sustainability principles.
9. **Sustainable Procurement:** All DOD and Fort Carson procurement actions support sustainability by 2027**.**
10. **Zero Waste:** The total weight of solid and hazardous waste disposed of is reduced to zero by 2027.
11. **Training Lands:** Training Ranges (land and associated air space used for live fire ranges, maneuver, testing and urban development designated for Military Operations in Urban Terrain [MOUT] training) capable of supporting current and future military training to standard.
12. **Sustainability Management System:** Advance a sustainable mission and Fort Carson by adopting an SMS/EMS and by imparting (passing on) a personal commitment and enthusiasm for sustainability.

Master Planning Strategy
Smart Growth Goals



The following ten goals are used to evaluate facility sitting layouts and infrastructure development decisions at Fort Carson and will be used to assist decision makers in understanding the various positive and negative impact on future facility opportunities:

- Promote military cohesiveness and efficiency in training
- Minimize development of open spaces
- Improve walk-ability of installation neighborhoods
- Site facilities to promote mass transit opportunities
- Site facilities based on analysis of interrelationships among users of facilities to adjacent facilities
- Create high-density mixed-use areas
- Site facilities to leverage existing utility infrastructure and future renewable energy opportunities
- Low impact development
- Encourage stakeholder collaboration in development decisions
- Use full life cycle cost analysis instead of first cost criteria in making development decisions.